# CONTENTS

### BOOK I.

### CHAPTER ONE.

No.		Page.
	The Composition of Textile Fabrics, Point Paper, The Founda-	
	tion Weaves	39
1.	Ends and picks	3
$^{2}.$	Textile designing paper	3
3.	The foundation weaves	4
4.	The plain weave	4
5.	The twill weaves	5
6.	Regular satin weaves	7
٠.	8	
	CHAPTER TWO.	
	Fancy Effects in Plain Weave Fabrics and Those Derived	1
	from the Plain Weave	0 - 17
7.	Plain weave fabrics figured by means of coarse and fine yarn	10
8.	Plain weave fabrics figured by means of two or more colors in	
	warp and filling	10
9.	Rib weaves	12
10.	Figured rib weaves	14
11.	Oblique rib weaves	15
12.	Basket weaves	16
13.	Figured plain weaves	17
	CHAPTER THREE.	
	Fancy Effects in Twill Weaves, Drafting, and Weaves	
	Derived from the Regular Twills	8 - 41
14.	Derived from the Regular Twills	
	warp and filling	18
15.	Drafting	19
16.	Broken twills	24
17.	Figured broken twills	26
18.	Skip twills	26
19.	Fancy skip twills	28
20.	Diagonal twills	28
21.	Reclining twills	31
22.	Curved twills	33
23.	Pointed twills.	33
24.	rigured pointed twills	34
25.	Double twill effects	34
26.	Fancy twill effects	35
27.	Entwining twills	36
28.	rancy twills produced on the entwining twill principle	37
29.	Corkscrew weaves	38
30.	Figured corkscrew weaves	40
	CHAPTER FOUR.	
	Weaves Derived from the Satin Weaves	246
31.	Double satins	42
<b>3</b> 2.	Granite weaves	43
33.	Cital Dreaks in Satin Weaves	44
34.	Shaded satins	45
		49

No.	1	PAGE.
	CHAPTER FIVE.	
35. 36. 37.	Weaves for Fabrics Constructed with two Warps and one Filling47 An extra warp for weight. An extra warp for figure. Lappet and swivel weaving.	51 47 49 50
	CHAPTER SIX.	
	Weaves for Fabrics Constructed with One Warp and Two	
38. 39. 40. 41. 42.	Fillings	58 $52$ $53$ $54$ $57$
	CHAPTER SEVEN.	
43. 44. 45. 46. 47. 48. 49. 50. 51.	Double Cloths. 59  The principle and construction of double cloths Double plain weaves. Tricot weaves. Combination of single and double plains. Matelasse weaves. Pique weaves. Marseilles weaves Crepons. Weaves for beavers, kerseys and meltons Chinchillas.	-75 59 63 66 67 67 69 70 70 72 73
	CHAPTER EIGHT.	
53. 54. 55. 56. 57. 58.	Single and Double Cloth Weaves for Fabrics of a Special Construction	88 76 77 78 79 80 80
	CHAPTER NINE.	
59. 60.	Triple and More Ply Cloths	-92 89 92
	CHAPTER TEN.	
61. 62. 63. 64.	Pile Fabrics. 93- Corduroys Velveteens Chenille Warp pile fabrics.	99 93 94 94 95

# CONTENTS

#### BOOK II.

#### CHAPTER ONE.

**	CHAPTER ONE.	PAGE.
No.		
	The Grading of Yarns	36
1.	Textile Fibres	3
$^{2}.$	Standard Numbers	3
3.	To find the count of any yarn (excepting Raw Silk)	4
4.	To find the number of yards of yarn per pound	5 5 5
5.	To find the number of yards of yarn per ounce	5
	To find the number of yards of yarn per ounce	5
6.	To find the weight, in pounds, of any amount of yarn	6
7.	To find the weight, in ounces, of any amount of yarn	U
	CHAPTER TWO.	
		7 15
	Equivalent Counts, Ply Yarns, and Their Single Equivalents.	1-15
8.	To find the equivalent count in other materials	- 1
9.	To find the single equivalent count of two and more ply	
	threads made of minor threads of the same count and	_
	material	8
10.	Ply yarns in Spun Silk	8
11.	Equivalents of compound threads composed of minor threads	
	of different counts, of the same material	9
12.	Equivalents of compound threads composed of two minor	
12.	threads of different counts and materials	9
10	Three ply threads of different counts of the same material	10
13.	Three ply threads of different counts of different materials	11
14.	Three ply threads of different counts and of different materials	11
15.	Four and more ply threads of different counts and of different	1.0
	materials	12
16.	To find count of required minor threads in same material as	
	that of the given minor and the desired compound thread	14
17.	To find the count of the required minor thread in another	
	material from the given minor thread	14
	CHAPTER THREE.	
		6-20
4.0	Grading of Raw Silk Yarns	1.0
18.	Dram System	16
19.	To find the number of yards per pound of dram silks	16
20.	To find the number of yards per ounce of any dram silk	17
21.	To find the equivalent of dram silk in other systems	17
22.	To find the equivalent in dram silk of other yarns	17
23.	Denier System	18
24.	Number of yards per pound of denier silks	18
25.	Number of yards per ounce of denier silks	18
26.	Equivalent counts in the denier system to those in the dram	
20.	system	19
27.	Equivalent counts in the dram system to those in the denier	
41.		19
00	system	10
28.	Equivalent counts in other systems to those of the denier	. 10
	system Equivalent counts in the denier system to those of other	19
29.	Equivalent counts in the denier system to those of other	
	systems	20
	CHAPTER FOUR.	
		2127
00	Calculations Pertaining to Cloth Analysis	
30.	Samples	21
31.	The take-up in weaving	21
32.	The total number of yards of warp per yard of cloth	22
33.	The total number of yards of filling per yard of cloth	23
34.	The total number of yards, of the various yarns used	24

No. 35.	Another method of finding the total number of each kind of	PAGE.	
	warp yarn used per yard of cloth	25	
$\frac{36}{37}$ .	To find the count of any yarn from a small sample  To find the weight of one yard of cloth, in ounces, from a	26	
٠	small sample	27	
	CHAPTER FIVE.		
38.	Analysis of Cloth	3—32 28	
38a.	Explanation of points 1, 2 and 3	29 29	
39.	Explanation of points 4 to 8. inclusive	30	
40. 41.	Explanation of points 9, 10 and 11	31 31	
	CHAPTER SIX.		
	Warp Calculation33		
42. 43.	Preparing the warp	3 <b>3</b> 33	
44.	The pattern. To find the number of patterns in the warp.	34	
45. 46.		35 36	
40. 47.	To find the total number of ends of each color in warp  To find the number of yards of warp yarn required	37	
48.	To find the number of yards of each color, or kind, of yarn	20	
49.	required To find the weight of warp in ounces or pounds	38 38	
50.	To find the count of warp yarn required	40	
51.52.	To find the number of ends required in warp  To find the required length of warp	40 40	
02.	Chapter Seven.	40	
	Filling Calculations4	1—44	
<b>5</b> 3.	The Filling	41	
54.55.	To find the number of pounds of filling required  To find the number of ounces of filling required	$\begin{array}{c} 41 \\ 42 \end{array}$	
56.	To find the required number of picks per inch	43	
<b>57</b> .	To find the number of yards of cloth that can be woven	44	
58.	To find the required count of the filling	44	
	CHAPTER EIGHT.		
	The Selvage, Take-Up of Warp during Weaving, Waste of Warp and Filling during Weaving4	547	
<b>5</b> 9.	The Selvage	45	
60. 61.	To find the length of fabric from loom	$\begin{array}{c} 46 \\ 46 \end{array}$	
01.	Chapter Nine.	•	
	Examples Illustrating the Calculations for Finding the Cost. 4	858	
62.	Blue Serge Suiting	48 49	
63. 64.	Cotton Sheeting	50	
65.	Fancy Worsted Dress Goods	$\frac{52}{5}$	
$66. \\ 67.$	Electric Tape	55 57	
٠,.	CHAPTER TEN.		
	The Diameter of Threads	9—62	
68.	The diameter of threads	59	
69.	The number of ends and picks per inches, including the interlacing	59	
70.	When the warp and filling are of different counts	61	